

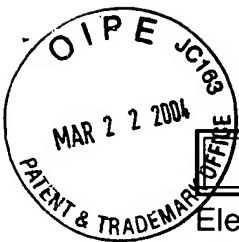


Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
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EFS ID: 57565  
Application ID: 10701387   
Title of Invention: METHOD AND APPARATUS FOR  
HEATING AND COOLING  
SUBSTRATES  
First Named Inventor: RATSON MORAD  
Domestic/Foreign Application: Domestic Application  
Filing Date: 2003-11-04  
Effective Receipt Date: 2004-03-22  
Submission Type: Information Disclosure  
Statement  
Filing Type:  
Confirmation number: 6359  
Attorney Docket Number: AMAT1717C3

Total Fees Authorized:

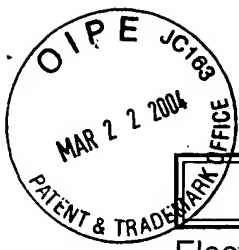
Digital Certificate Holder: cn=N. Alexander Nolte,ou=Registered Attorneys,ou=Patent and  
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**TRANSMITTAL**

Electronic Version v1.1

Stylesheet Version v1.1.0

| <b>Title of<br/>Invention</b>  | <b>METHOD AND APPARATUS FOR HEATING AND COOLING<br/>SUBSTRATES</b> |                |                           |             |                |  |                          |            |  |            |
|--|--|----------------|---------------------------|-------------|----------------|--|--------------------------|------------|--|------------|
| Application Number: 10/701387    |  |                |                           |             |                |  |                          |            |  |            |
| Date: 2003-11-04   |  |                |                           |             |                |  |                          |            |  |            |
| First Named Applicant: RATSON MORAD  |  |                |                           |             |                |  |                          |            |  |            |
| Confirmation Number: 6359  |  |                |                           |             |                |  |                          |            |  |            |
| Attorney Docket Number: AMAT1717C3   |  |                |                           |             |                |  |                          |            |  |            |
| <p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p> |  |                |                           |             |                |  |                          |            |  |            |
| <table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Mr. N. ALEXANDER NOLTE<br/>Registered Number: 45689</td><td>[MR. N. ALEXANDER NOLTE]</td><td>Attorney</td></tr></tbody></table>  |  |                | Submitted by:             | Elec. Sign. | Sign. Capacity | Mr. N. ALEXANDER NOLTE<br>Registered Number: 45689 | [MR. N. ALEXANDER NOLTE] | Attorney   |  |            |
| Submitted by:  | Elec. Sign.  | Sign. Capacity |                           |             |                |  |                          |            |  |            |
| Mr. N. ALEXANDER NOLTE<br>Registered Number: 45689   | [MR. N. ALEXANDER NOLTE]   | Attorney       |                           |             |                |  |                          |            |  |            |
| <table><tr><td>Documents being submitted</td><td>Files</td></tr><tr><td>us-ids</td><td>AMAT1717C3NAN-usidst.xml</td></tr><tr><td></td><td>us-ids.dtd</td></tr><tr><td></td><td>us-ids.xsl</td></tr></table>  |  |                | Documents being submitted | Files       | us-ids         | AMAT1717C3NAN-usidst.xml                           |                          | us-ids.dtd |  | us-ids.xsl |
| Documents being submitted  | Files  |                |                           |             |                |  |                          |            |  |            |
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| <b>Comments</b><br><br>NO FEE DUE - FILED BEFORE THE FIRST OA - 1 OF 3   |  |                |                           |             |                |  |                          |            |  |            |



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

| Title of Invention   | METHOD AND APPARATUS FOR HEATING AND COOLING SUBSTRATES |            |            |                           |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |     |  |  |  |  |   |         |            |        |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |                           |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                |  |  |  |  |    |         |            |               |  |  |  |  |    |         |            |        |  |  |  |  |    |         |            |                   |  |  |  |
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| <div>Application Number: 10/701387</div> <div>Confirmation Number: 6359</div> <div>First Named Applicant: RATSON MORAD</div> <div>Attorney Docket Number: AMAT1717C3</div> <div>Search string: ( 3649509 or 3727620 or 3770598 or 4027686 or 4092176 or 4110176 or 4113492 or 4315059 or 4326940 or 4336114 or 4376685 or 4405416 or 4428815 or 4435266 or 4489740 or 4510176 or 4518678 or 4519846 or 4568431 or 4693805 or 4732785 or 4789445 or 4816098 or 4816638 or 5039381 or 5055425 or 5069760 or 5092975 or 5100516 or 5155336 or 5162260 or 5222310 or 5224504 or 5230743 or 20010030101 or 20020000271 or 20020022363 or 20020029961 or 20020037641 or 20020074233 ).pn.</div> <div>US Patent Documents</div> <div>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</div> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>3649509</td><td>1972-03-14</td><td>MORAWETZ, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>3727620</td><td>1973-04-17</td><td>ORR</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>3770598</td><td>1973-11-06</td><td>CREUTZ</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>4027686</td><td>1977-06-07</td><td>SHORTES, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>4092176</td><td>1978-05-30</td><td>KOZAI, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>4110176</td><td>1978-08-29</td><td>CREUTZ, ET AL. (DECEASED)</td><td></td><td></td><td></td></tr><tr><td></td><td>7</td><td>4113492</td><td>1978-09-12</td><td>SATO, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>8</td><td>4315059</td><td>1982-02-09</td><td>RAISTRICK, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>9</td><td>4326940</td><td>1982-04-27</td><td>ECKLES, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>10</td><td>4336114</td><td>1982-06-22</td><td>MAYER, ET AL.</td><td></td><td></td><td></td></tr><tr><td></td><td>11</td><td>4376685</td><td>1983-03-15</td><td>WATSON</td><td></td><td></td><td></td></tr><tr><td></td><td>12</td><td>4405416</td><td>1983-09-20</td><td>RAISTRICK, ET AL.</td><td></td><td></td><td></td></tr></tbody></table> |   |            |            |                           |      |       |          | init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass |  | 1 | 3649509 | 1972-03-14 | MORAWETZ, ET AL. |  |  |  |  | 2 | 3727620 | 1973-04-17 | ORR |  |  |  |  | 3 | 3770598 | 1973-11-06 | CREUTZ |  |  |  |  | 4 | 4027686 | 1977-06-07 | SHORTES, ET AL. |  |  |  |  | 5 | 4092176 | 1978-05-30 | KOZAI, ET AL. |  |  |  |  | 6 | 4110176 | 1978-08-29 | CREUTZ, ET AL. (DECEASED) |  |  |  |  | 7 | 4113492 | 1978-09-12 | SATO, ET AL. |  |  |  |  | 8 | 4315059 | 1982-02-09 | RAISTRICK, ET AL. |  |  |  |  | 9 | 4326940 | 1982-04-27 | ECKLES, ET AL. |  |  |  |  | 10 | 4336114 | 1982-06-22 | MAYER, ET AL. |  |  |  |  | 11 | 4376685 | 1983-03-15 | WATSON |  |  |  |  | 12 | 4405416 | 1983-09-20 | RAISTRICK, ET AL. |  |  |  |
| init   | Cite.No.  | Patent No. | Date       | Patentee                  | Kind | Class | Subclass |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |     |  |  |  |  |   |         |            |        |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |                           |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                |  |  |  |  |    |         |            |               |  |  |  |  |    |         |            |        |  |  |  |  |    |         |            |                   |  |  |  |
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|  | 2   | 3727620    | 1973-04-17 | ORR                       |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |     |  |  |  |  |   |         |            |        |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |                           |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                |  |  |  |  |    |         |            |               |  |  |  |  |    |         |            |        |  |  |  |  |    |         |            |                   |  |  |  |
|  | 3   | 3770598    | 1973-11-06 | CREUTZ                    |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |     |  |  |  |  |   |         |            |        |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |                           |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                |  |  |  |  |    |         |            |               |  |  |  |  |    |         |            |        |  |  |  |  |    |         |            |                   |  |  |  |
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|  | 5   | 4092176    | 1978-05-30 | KOZAI, ET AL.             |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |     |  |  |  |  |   |         |            |        |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |                           |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                |  |  |  |  |    |         |            |               |  |  |  |  |    |         |            |        |  |  |  |  |    |         |            |                   |  |  |  |
|  | 6   | 4110176    | 1978-08-29 | CREUTZ, ET AL. (DECEASED) |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |     |  |  |  |  |   |         |            |        |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |                           |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                |  |  |  |  |    |         |            |               |  |  |  |  |    |         |            |        |  |  |  |  |    |         |            |                   |  |  |  |
|  | 7   | 4113492    | 1978-09-12 | SATO, ET AL.              |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |     |  |  |  |  |   |         |            |        |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |                           |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                |  |  |  |  |    |         |            |               |  |  |  |  |    |         |            |        |  |  |  |  |    |         |            |                   |  |  |  |
|  | 8   | 4315059    | 1982-02-09 | RAISTRICK, ET AL.         |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |     |  |  |  |  |   |         |            |        |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |                           |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                |  |  |  |  |    |         |            |               |  |  |  |  |    |         |            |        |  |  |  |  |    |         |            |                   |  |  |  |
|  | 9   | 4326940    | 1982-04-27 | ECKLES, ET AL.            |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |     |  |  |  |  |   |         |            |        |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |                           |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                |  |  |  |  |    |         |            |               |  |  |  |  |    |         |            |        |  |  |  |  |    |         |            |                   |  |  |  |
|  | 10  | 4336114    | 1982-06-22 | MAYER, ET AL.             |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |     |  |  |  |  |   |         |            |        |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |                           |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                |  |  |  |  |    |         |            |               |  |  |  |  |    |         |            |        |  |  |  |  |    |         |            |                   |  |  |  |
|  | 11  | 4376685    | 1983-03-15 | WATSON                    |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |     |  |  |  |  |   |         |            |        |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |                           |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                |  |  |  |  |    |         |            |               |  |  |  |  |    |         |            |        |  |  |  |  |    |         |            |                   |  |  |  |
|  | 12  | 4405416    | 1983-09-20 | RAISTRICK, ET AL.         |      |       |          |      |          |            |      |          |      |       |          |  |   |         |            |                  |  |  |  |  |   |         |            |     |  |  |  |  |   |         |            |        |  |  |  |  |   |         |            |                 |  |  |  |  |   |         |            |               |  |  |  |  |   |         |            |                           |  |  |  |  |   |         |            |              |  |  |  |  |   |         |            |                   |  |  |  |  |   |         |            |                |  |  |  |  |    |         |            |               |  |  |  |  |    |         |            |        |  |  |  |  |    |         |            |                   |  |  |  |

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|  | 13 | 4428815 | 1984-01-31 | POWELL, ET AL.    |
|  | 14 | 4435266 | 1984-03-06 | JOHNSTON          |
|  | 15 | 4489740 | 1984-12-25 | RATTAN, ET AL.    |
|  | 16 | 4510176 | 1985-04-09 | CUTHBERT, ET AL.  |
|  | 17 | 4518678 | 1985-05-21 | ALLEN             |
|  | 18 | 4519846 | 1985-05-28 | AIGO              |
|  | 19 | 4568431 | 1986-02-04 | POLAN, ET AL.     |
|  | 20 | 4693805 | 1987-09-15 | QUAZI             |
|  | 21 | 4732785 | 1988-09-15 | QUAZI             |
|  | 22 | 4789445 | 1988-12-06 | GOFFMAN, ET AL.   |
|  | 23 | 4816098 | 1989-03-28 | DAVIS, ET AL.     |
|  | 24 | 4816638 | 1989-03-28 | UKAI, ET AL.      |
|  | 25 | 5039381 | 1991-08-13 | MULLARKEY         |
|  | 26 | 5055425 | 1991-10-08 | LEIBOVITZ, ET AL. |
|  | 27 | 5069760 | 1991-12-03 | TSUKAMOTO, ET AL. |
|  | 28 | 5092975 | 1992-03-03 | YAMAMURA, ET AL.  |
|  | 29 | 5100516 | 1992-03-30 | NISHIMURA, ET AL. |
|  | 30 | 5155336 | 1992-10-13 | GRONET, ET AL.    |
|  | 31 | 5162260 | 1992-11-10 | LEIBOVITZ, ET AL. |
|  | 32 | 5222310 | 1993-06-29 | THOMPSON, ET AL.  |
|  | 33 | 5224504 | 1993-07-06 | THOMPSON, ET AL.  |
|  | 34 | 5230743 | 1993-07-27 | THOMPSON, ET AL.  |

## US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

| init | Cite.No. | Pub. No.    | Date       | Applicant        | Kind | Class | Subclass |
|------|----------|-------------|------------|------------------|------|-------|----------|
|      | 1        | 20010030101 | 2001-10-18 | BERNER, ET AL.   |      |       |          |
|      | 2        | 20020000271 | 2002-01-03 | RITZDORF, ET AL. |      |       |          |
|      | 3        | 20020022363 | 2002-02-21 | RITZDORF, ET AL. |      |       |          |
|      | 4        | 20020029961 | 2002-03-14 | DORDI, ET AL.    |      |       |          |
|      | 5        | 20020037641 | 2002-03-28 | RITZDORF, ET AL. |      |       |          |
|      | 6        | 20020074233 | 2002-06-20 | RITZDORF, ET AL. |      |       |          |

Signature

| Examiner Name | Date |
|---------------|------|
|               |      |



Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
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EFS ID: 57567

Application ID: 10701387



Title of Invention:

METHOD AND APPARATUS FOR  
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SUBSTRATES

First Named Inventor: RATSON MORAD

Domestic/Foreign Application: Domestic Application

Filing Date: 2003-11-04

Effective Receipt Date: 2004-03-22

Submission Type: Information Disclosure  
Statement

Filing Type:

Confirmation number: 6359

Attorney Docket Number: AMAT1717C3

Total Fees Authorized:

Digital Certificate Holder: cn=N. Alexander Nolte,ou=Registered Attorneys,ou=Patent and  
Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US  
Certificate Message Digest: bfd0c769ae481eede4142b51ec78e0746a4f7e98



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Electronic Version v1.1

Stylesheet Version v1.1.0

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|--|--|----------------|---------------------------|-------------|----------------|--|--------------------------|------------|--|------------|
| Application Number: 10/701387    |  |                |                           |             |                |  |                          |            |  |            |
| Date: 2003-11-04   |  |                |                           |             |                |  |                          |            |  |            |
| First Named Applicant: RATSON MORAD  |  |                |                           |             |                |  |                          |            |  |            |
| Confirmation Number: 6359  |  |                |                           |             |                |  |                          |            |  |            |
| Attorney Docket Number: AMAT1717C3   |  |                |                           |             |                |  |                          |            |  |            |
| <p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p> |  |                |                           |             |                |  |                          |            |  |            |
| <table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Mr. N. ALEXANDER NOLTE<br/>Registered Number: 45689</td><td>[MR. N. ALEXANDER NOLTE]</td><td>Attorney</td></tr></tbody></table>  |  |                | Submitted by:             | Elec. Sign. | Sign. Capacity | Mr. N. ALEXANDER NOLTE<br>Registered Number: 45689 | [MR. N. ALEXANDER NOLTE] | Attorney   |  |            |
| Submitted by:  | Elec. Sign.  | Sign. Capacity |                           |             |                |  |                          |            |  |            |
| Mr. N. ALEXANDER NOLTE<br>Registered Number: 45689   | [MR. N. ALEXANDER NOLTE]                                   | Attorney       |                           |             |                |  |                          |            |  |            |
| <table><tr><td>Documents being submitted</td><td>Files</td></tr><tr><td>us-ids</td><td>AMAT1717C3NAN2-usidst.xml</td></tr><tr><td></td><td>us-ids.dtd</td></tr><tr><td></td><td>us-ids.xsl</td></tr></table>   |  |                | Documents being submitted | Files       | us-ids         | AMAT1717C3NAN2-usidst.xml                          |                          | us-ids.dtd |  | us-ids.xsl |
| Documents being submitted  | Files  |                |                           |             |                |  |                          |            |  |            |
| us-ids   | AMAT1717C3NAN2-usidst.xml                                  |                |                           |             |                |  |                          |            |  |            |
|  | us-ids.dtd   |                |                           |             |                |  |                          |            |  |            |
|  | us-ids.xsl   |                |                           |             |                |  |                          |            |  |            |
| <b>Comments</b><br><br>NO FEE DUE - FILED BEFORE FIRST OA - 2 OF 3   |  |                |                           |             |                |  |                          |            |  |            |



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of  
Invention

METHOD AND APPARATUS FOR HEATING AND  
COOLING SUBSTRATES

Application Number: 10/701387



Confirmation Number: 6359

First Named Applicant: RATSON MORAD

Attorney Docket Number: AMAT1717C3

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or 5884009 or 6015749 or 6071388 or 6093291  
or 6136163 or 6187152 or 6203582 or 6207005  
or 6258220 or 6267853 or 6276072 or 6290865  
or 6290933 or 6294059 or 6309520 or  
6508920 ).pn.

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Note: Applicant is not required to submit a paper copy of cited US Patent Documents

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Signature

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